

Title (en)

METHOD AND SYSTEM FOR EXCHANGING DATA BETWEEN A MASTER PROCESSOR AND A MULTIPLICITY OF SLAVE PROCESSORS

Publication

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Application

**EP 88112861 A 19880806**

Priority

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Abstract (en)

[origin: EP0354251A1] A system comprising a communication link (13, 18, 19) between a master processor (5) and a multiplicity of slave processors (29) uses the communication cycle to transmit equidistant timing signals to the slave processors, whereby said timing signals are at least partially differing. For this purpose, the master processor operates in time slices of 2 ms. Communication with the slave processors is performed in fixed format. The master processor manages the communications in certain time slices according to a matrix wherein each column represents a certain time slice. The columns in this matrix are organized such that the communications with those slave processors preceding the communication with a specific slave processor are the same as in all other columns containing a communication with said specific slave processor. In particular, the slave processors requiring short-intervallic timing signals are entered on top of the columns, whereas slave processors with longer-intervallic timing signals are entered below these. This system and the method of communication are particularly useful in a configurable medical monitoring system where the slave processors need equidistant timing signals for analog-to-digital conversion.

IPC 1-7

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CPC (source: EP US)

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